

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A wireless communication apparatus in an MSP system having a redundant configuration and receiving same signals through a current cable circuit and a standby cable circuit, comprising:

current communication means comprising a current cable circuit configured by a current STM-N input interface circuit for receiving a signal from ~~[[an]]~~ a MUX device connected to a node, a current STM-N output interface circuit for outputting a signal to the MUX device, a current transmitter/receiver connected to the current STM-N input interface circuit, ~~and~~ a current circulator connected to the current transmitter/receiver, and a current radio circuit, configured by an antenna connected to the current circulator, for transmitting/receiving a signal to and from another radio device; and

standby communication means comprising a standby cable circuit configured by a standby STM-N input interface circuit for receiving a signal from the MUX device, a standby STM-N output interface circuit for outputting a signal to the MUX device, a standby transmitter/receiver connected to the standby STM-N input interface circuit and the standby STM-N output interface circuit, ~~and~~ a standby circulator connected to the standby transmitter/receiver, and a standby radio circuit, configured by an antenna connected to the standby circulator, for transmitting/receiving a signal to and from the other radio device, uses a co-channel radio frequency distribution, and completely duplexes input through output of an STM-N signal in the apparatus,

wherein the radio signals transmitted from the current communication means and the standby communication means are polarization signals having the same frequencies and different polarization directions, and

wherein the polarization signals having the same frequencies and different polarization directions are combined by the antenna and output having the co-channel radio frequency distribution.

2. (Canceled).

3. (Currently Amended) The wireless communication apparatus according to claim 1, ~~characterized in that~~ wherein:

the current communication means receives a signal transmitted from a current communication means of the other wireless communication apparatus through the current radio circuit, and transmits the received signal to the MUX apparatus through the current cable circuit; and

the standby communication means receives a signal transmitted from a standby communication means of the other wireless communication apparatus through the standby radio circuit, and transmits the received signal to the MUX apparatus through the standby cable circuit.

4. Canceled.

5. (Currently Amended) A wireless communication system for performing wireless communications in an MSP system using wireless communication apparatuses which have a redundant configuration, receive same signals from MUX device to each wireless communication apparatus through a current cable circuit and a standby cable circuit, each of the wireless communication apparatuses comprising:

current communication means comprising a current cable circuit configured by a current STM-N input interface circuit for receiving a signal from an MUX device connected to a node, a current STM-N output interface circuit for outputting a signal to the MUX device, a current transmitter/receiver connected to the current STM-N input interface circuit and the current STM-N output interface circuit, and a current circulator connected to the current transmitter/receiver, and a current radio circuit, configured by an antenna connected to the current circulator, for transmitting/receiving a signal to and from another radio device; and

standby communication means comprising a standby cable circuit configured by a standby STM-N input interface circuit for receiving a signal from the MUX device, a standby STM-N output interface circuit for outputting a signal to the MUX device, a standby transmitter/receiver connected to the standby STM-N input interface circuit and the standby STM-N output interface circuit, and a standby circulator connected to the standby transmitter/receiver, and a standby radio circuit, configured by an antenna connected to the standby circulator, for transmitting/receiving a signal to and from the other radio device, uses a co-channel radio frequency distribution, and completely duplexes input through output of an STM-N signal in the apparatus,

wherein the radio signals transmitted from the current communication means and the standby communication means are polarization signals having the same frequencies and different polarization directions, and

wherein the polarization signals having the same frequencies and different polarization directions are combined by the antenna and output having the co-channel radio frequency distribution.

6. (Canceled).

7. (Currently Amended) The wireless communication system according to claim 5, ~~characterized in that~~ wherein:

the current communication means receives a signal transmitted from a current communication means of the other wireless communication apparatus through the current radio circuit, and transmits the received signal to the MUX apparatus through the current cable circuit, and

the standby communication means receives a signal transmitted from a standby communication means of the other wireless communication apparatus through the standby radio circuit, and transmits the received signal to the MUX apparatus through the standby cable circuit.

8. Canceled.

9. (Currently Amended) The wireless communication apparatus according to claim 2, ~~characterized in that~~ wherein:

the current communication means receives a signal transmitted from a current communication means of the other wireless communication apparatus through the current radio circuit, and transmits the received signal to the MUX apparatus through the current cable circuit; and

the standby communication means receives a signal transmitted from a standby communication means of the other wireless communication apparatus through the standby radio circuit, and transmits the received signal to the MUX apparatus through the standby cable circuit.

10. (Currently Amended) The wireless communication system according to claim 6, ~~characterized in that~~ wherein:

the current communication means receives a signal transmitted from a current communication means of the other wireless communication apparatus through the current radio circuit, and transmits the received signal to the MUX apparatus through the current cable circuit, and

the standby communication means receives a signal transmitted from a standby communication means of the other wireless communication apparatus through the standby radio circuit, and transmits the received signal to the MUX apparatus through the standby cable circuit.

11. (New) The wireless communication apparatus according to claim 1, wherein the different polarization directions are such that the radio signals transmitted from the current communication means and the standby communication means are orthogonal to each other in a polarization sense.

12. (New) The wireless communication system according to claim 5, wherein the different polarization directions are such that the radio signals transmitted from the current communication means and the standby communication means are orthogonal to each other in a polarization sense.